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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/759,095 01/20/2004		Kazuhiro Taniguchi	OK1.636	6923	
7590 06/30/2004			EXAMINER		
VOLENTINE Suite 150	FRANCOS, PLLC	SMITH, JOHNNIE L			
12200 Sunrise	Valley Drive	ART UNIT	PAPER NUMBER		
Reston, VA 20191			2881		
			DATE MAILED: 06/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					N			
		Applicatio	n No.	Applicant(s)				
		10/759,09	5	TANIGUCHI, KAZU	HIRO			
	Office Action Summary	Examin r		Art Unit				
		Johnnie L	Smith II	2881				
Period fo	Th MAILING DATE of this communications	ation appears on the	cover sheet with the c	orrespondence add	ress			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC, ansions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply with reply received by the Office later than three months after each patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no eve ication. days, a reply within the statu tory period will apply and will, by statute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this cor D (35 U.S.C. § 133).	nmunication.			
Status	·							
1) 🖂	Responsive to communication(s) filed	on <u>20 January 200</u> 4	<u>ļ</u> .					
2a) ☐	This action is FINAL . 2b)⊠ This action is n	on-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	 Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. □ Claim(s) is/are allowed. □ Claim(s) 1-7 is/are rejected. □ Claim(s) is/are objected to. □ Claim(s) are subject to restriction and/or election requirement. 							
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on 20 January 200 Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to be	<u>04</u> is/are: a) ☐ acce on to the drawing(s) b he correction is require	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	R 1.121(d).			
Priority (under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Infor	ot(s) De of References Cited (PTO-892) De of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or P Der No(s)/Mail Date <u>0120</u> .		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	-152)			

Art Unit: 2881

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by US patent publication 2003/0030010 (Perel et al). In reference to claims 1-3, Perel teaches a vaporizer for an ion source for ionizing a solid source of an ion implantation apparatus having a nozzle having a gas inlet port formed in upward orientation located a predetermined distance downward from an upper end of an inner surface of a crucible for vaporizing the solid source therein; and wherein said solid source is arsenic (figure 2, claim 9, paragraph 0009).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent publication 2003/0030010 (Perel et al). As discussed above, Perel discloses the claimed invention except for a nozzie having a pïuraiity of gas iniet ports. It would have been an obvious to one of ordinary skill at the time of the invention to have a plurality of gas ports, since applicant has not disclosed that having two gas inlet ports solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with a singular port as presented above.

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patents; 6,107,634 (Horsky), 6,593,580 (Miyabayashi), 6,288,403 (Horsky et al), 4,844,006 (Page, Jr et al), 5,322,710 (Visser), 4,908,243 (Page, Jr et al), 5,356,477 (Visser), and US patent publications 2002/0153493 (Miyabayashi), 2001/0054699 (Horsky et al). All of the cited US references contain art similar to that being claimed by applicant, more specifically, methods and apparatuses for ion source vaporizers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnnie L Smith II whose telephone number is 571-272-2481. The examiner can normally be reached on Monday-Thursday 7-4 P.M. and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Johnnie L Smith II Examiner Art Unit 2881

JLSII

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800